## THERE IS CLAIMED:

- 1. Activated carbon having the following characteristics:
- CCl<sub>4</sub> number from 120% to 190%,
- P<sub>2</sub>O<sub>5</sub> content at most equal to 2%,
- extraction pH greater than 7,
- bulk density from 0.18 g/ml to 0.32 g/ml, and
- electrical resistivity less than 1.5 ohm.cm.
- 2. The activated carbon claimed in claim 1 when it has a BET surface area of at least 2 000  $m^2/g$ .
- 3. The activated carbon claimed in claim 1 when it has a BET surface area of at least 1 800  $\mathrm{m}^2/\mathrm{g}$ .
- 4. The activated carbon claimed in claim 1 when it has an iodine number of at least 1 750 mg/g.
- 5. The activated carbon claimed in claim 1 when it has a butane adsorption coefficient of 45% to 75%.
- 6. The activated carbon claimed in claim 1 when it has a ball-pan hardness of at least 65%.
- 7. The activated carbon claimed in claim 1 when it has a particle size distribution in which the particle size is less than 4.75 mm and greater than 0.15 mm.
- 8. The activated carbon claimed in claim 1 when it is a powder with a particle size less than 212 microns.
- 9. The activated carbon claimed in claim 1 when it has a micropore volume of at least  $0.50 \, \text{ml/g}$  and a mesopore volume of at least  $0.30 \, \text{ml/g}$ .
- 10. A process for manufacturing an activated carbon, said process comprising the following stages:
- preparing a precursor activated carbon by chemically activating a starting material with phosphoric acid,
- neutralizing said precursor with an aqueous solution, and
- thermal activation.
- 11. The process claimed in claim 10 wherein said precursor is obtained by chemically activating wood with

phosphoric acid.

- 12. The process claimed in claim 10 wherein said precursor has the following characteristics:
- CCl<sub>4</sub> number from 60% to 120%,
- P<sub>2</sub>O<sub>5</sub> content from 3% to 12%,
- extraction pH from 1 to 2,
- bulk density from 0.18 g/ml to 0.32 g/ml, and
- electrical resistivity greater than 500 ohm.cm.
- 13. The process claimed in claim 12 wherein said precursor additionally has the following characteristics:
- butane adsorption coefficient 22% to 47%,
- iodine number at least 900 mg/g,
- BET surface area at least 900 m<sup>2</sup>/q, and
- ball-pan hardness from 50% to 65%.
- 14. The process claimed in claim 10 wherein said neutralization is carried out with urea or ammonia.
- 15. The process claimed in claim 10 wherein the base/precursor ratio is from 0.1 to 0.3.
- 16. The process claimed in claim 10 wherein the water/precursor ratio is from 1.5 to 2.5.
- 17. The process claimed in claim 10 wherein said neutralization includes drying in order to reduce the water content of said product to less than 10%.
- 18. The process claimed in claim 10 wherein said activation is carried out at a reaction temperature from 800°C to 1 000°C.
- 19. The process claimed in claim 10 wherein said activation is carried out in a furnace in the presence of steam and/or carbon dioxide.
- 20. The process claimed in claim 10 wherein said precursor has a particle size greater than the ASTM No. 70 sieve (212 microns) and further including a particle size grading stage.
- 21. Use of activated carbon as claimed in any of claims 1 to 9 for the treatment of water containing

organic matter.

- 22. Use of activated parbon as claimed in any of claims 1 to 9 to remove atracine.
- 23. Use of activated carbon as claimed in any of claims 1 to 9 to remove chloramines.